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APPLICATION NO. FILING DATE		TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/617,717	10/617,717 07/14/2003		Antony Howell	1507 US	4193		
20346	7590	08/31/2004		EXAM	EXAMINER		
	FETY SYS	STEMS, INC.	DONOVAN, LINCOLN D				
		ED HIGHWAY	ART UNIT	PAPER NUMBER			
LAKELA	ND, FL 33	3811-1130	2832				
			DATE MAILED: 08/31/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

					711			
		Application I	No.	Applicant(s)				
		10/617,717		HOWELL, ANTONY				
	Office Action Summary	Examiner		Art Unit .				
		Lincoln Dono		2832				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the co	ver sheet with the c	correspondence addre	ss			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statuting reply received by the Office later than three months after the mailing datent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, ply within the statutory the will apply and will ex te, cause the application.	however, may a reply be tin y minimum of thirty (30) day pire SIX (6) MONTHS from ion to become ABANDONE	nely filed s will be considered timely. the mailing date of this commodition (35 U.S.C. § 133).	unication.			
Status	,							
1)[]	Responsive to communication(s) filed on							
/—		[.] is action is non-	-final.					
3)								
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 1-17 is/are pending in the application	n.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[Claim(s) is/are allowed.							
6)⊠	Claim(s) 1-17 is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction and/	or election requ	ıirement.					
Applicat	ion Papers							
9)[The specification is objected to by the Examin	er.						
10)🛛	The drawing(s) filed on 13 July 2003 is/are: a)∏ accepted o	r b) objected to b	by the Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be h	ield in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ction is required i	if the drawing(s) is ob	jected to. See 37 CFR 1	l.121(d).			
11)	The oath or declaration is objected to by the E	Examiner. Note	the attached Office	Action or form PTO-	152.			
Priority (under 35 U.S.C. § 119							
-	Acknowledgment is made of a claim for foreign)-(d) or (f).				
	2. Certified copies of the priority documen			on No				
	3. Copies of the certified copies of the price	ority documents	s have been receive	ed in this National Sta	ge			
	application from the International Burea	au (PCT Rule 1	7.2(a)).					
* 5	See the attached detailed Office action for a lis	t of the certified	t copies not receive	ed.				
Attachmen	• •		[] Indeed to 10	(DTO 446)				
	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4)	Interview Summary Paper No(s)/Mail Da					
3) Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date			Patent Application (PTO-15)	2)			

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed 12-15-03 fails to comply with 37 CFR 1.98(a)(1), which requires a list of all patents, publications, or other information submitted for consideration by the Office.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 7-9, 11, 13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hufgard et al. [US 6,060,969] in view of Mancusi, Jr. [US 3,924,631].

Regarding claims 1, 7, 9, 13 and 16, Hufgard et al. discloses a contactless proximity switch [figure 1] comprising:

- a hinge assembly having a base portion [1] and an arm portion [2]
 extending over the base portion;
- a magnetic field sensor [7] mounted within a cavity to the base portion;
 and
- an activation magnet [9] mounted within a cavity to the arm portion.

Hufgard et al. disclose the instant claimed invention except for the specific structure of the hinge assembly.

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Mancusi, Jr. discloses a magnetic clamp having a u-shaped hinge structure [figure 1] formed of a single plastic piece having a base portion [12] connected to an arm portion [10] biased from the base portion via a flexible section [14].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the hinge design of Mancusi, Jr. for the hinge of Hufgard et al., for the purpose of facilitating assembly.

Regarding claims 3 and 11, Mancusi, Jr. discloses the thickness of the flexible section being approximately one half that of the base portion and extending outwardly thereof in the engaged state [figure 1].

Regarding claims 8 and 17, Hufgard et al., as modified, disclose the instant claimed invention except for the specific material used for the hinge assembly.

The use polypropylene for the hinge assembly would have been obvious as a well known material to provide the necessary resiliency and strength.

Claims 2, 4-6, 10, 12, and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hufgard et al., as modified, as applied to claims 1 and 9 above, and further in view of Forsythe et al. [US 6,175,290].

Regarding claims 2 and 10, Hufgard et al., as modified, disclose the instant claimed invention except for the use of a stop means on the hinge assembly.

Forsythe et al. disclose a magnetic sensor switch including a movable manget [70] mounted to an arm [66] including stop means [42] thereon.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include stop means on the hinge assembly of Hufgard et al., as modified, in order to prevent overtravel of the arm.

Regarding claims 4 and 12, Hufgard et al., as modified, disclose the instant claimed invention except for a fastener hole being mounted on the hinge assembly arranged such that the arm does not extend thereover.

Forsythe et al. further discloses a fastener hole [54a-b] mounted on the assembly arranged such that the arm does not extend thereover [figure 2].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the fastener hole design of Forsythe et al., in Hufgard et al., as modified, for the purpose of securing the hinge assembly to a mounting surface.

Regarding claims 5-6 and 14-16, Hufgard et al., as modified, disclose the instant claimed invention except for the specific type of magnetic sensor used.

Forsythe et al. discloses the use of reed switches and/or Hall sensors cooperating with the magnet [column 4, line 66-column 5, line 16].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use reed switches or Hall switches for the sensor of Hufgard et al., as modified, in order to sense the magnetic field.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lincoln Donovan whose telephone number is (571) 272-1988. The examiner can normally be reached on M-F 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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LINCOLN DONOVAN PRIMARY EXAMINER GROUP 2100